



# NWS National Climate Services

Climate Data in the Field



# AWIPS Climate Refresh



- As was already shown, Central Processing has already started with the AWIPS Climate Refresh
  - To recap;
    - First iteration will bring the current program up to modern code and fix the gamut of deficiency reports
    - Expected availability around the beginning of the year
  - Things to remember;
    - We will finally be able to work from a common climate database
    - This can be the basis for an entire suite of climate tools that can be integrated into the rest of AWIPS



# COOP Sustainability



- As shown, COOP ranks very high as an observing system not just for Climate, but also for Hydro
- In order for COOP to keep up with the times and still remain relevant to climate, COOP must evolve by;
  - Updating instrumentation;
  - Better reliability;
  - Better coverage



# COOP Sustainability



- What's currently being worked on?
  - Station metadata – The Station Information System (SIS) is maturing, will be deploying version 2 soon
  - Wireless temperature system
    - Contract to be out soon
    - Modular design, will be able to add other sensors to system
    - Potential to connect to Observers home network for data transmission (future)
  - Soil temperature (and moisture?)
    - Will tie into wireless temperature data logger to show on display



# Snow Measurements



- Science or Sorcery?
- A recent analysis of data from the January 2016 East Coast Blizzard gave us some things to think about
  - From 8 different airport LCD sites, snow was measured at least 3 different ways (clear board 6-hourly, subtract new snow from snow on ground, and hourly)
  - Some LCD sites (other than those looked at) use a COOP, once a day measurement
  - Not to mention all the COOP sites that only measure once per day



# Snow Measurements



- How do we defend these as climate quality observations?
- Should we decide on one way of measuring snow for consistency?
- Or, will this just cause more discontinuity in the snow record?
- DISCUSS!